

APPENDIX 1

July 31, 1998

1. Appendix 1 - Region Specific Services - Technical Descriptions for Basic Serving Arrangements.....	3
Dedicated Digital (64 Kbps **)	3
ATM Cell Relay Service (8040).....	4
Frame Relay Service (4027,5037,8039).....	5
MegaBit Service (8041)	6
Trunk Side Access Facility (4003).....	7
Video Dialtone Access Link (3010)	8
555 Access Service (8038)	9
2. Appendix 1 - Region Specific Services - Technical Descriptions for Circuit Switched Serving Arrangements10	
AIN Alternate Routing (4028).....	10
AIN Single Number Access (4030).....	11
AIN Terminating Data Collection/Customized Routing (4029)	12
Automatic Disaster Recovery of DID (5010).....	13
Automatic Delivery (2019).....	14
Bridging - Line (5001).....	15
Call Denial On Line Or Hunt Group (6004).....	16
Call Detail Recording Reports - via NXX Screening (8014).....	17
Call Forwarding Originating (2003).....	18
Call Forwarding To Multiple Locations (6002).....	19
CFDA To DID Intraswitch (8022)	20
Call Transfer On DID (3002,4026,8034)	21
Call Waiting (2005,3017,4018,5005)	22
Call Waiting With Forwarding Options (6001).....	24
Called/Calling Number Information - ANI (4005)	25
Coin Phone With Post Dialing Tone Capability **	26
Custom Service Areas (4006)	27
Customer Changeable Number of Rings (2004**).....	28
Cut Off On Disconnect **	29
Dial Call Waiting (8030).....	30
Dialed Number Identification via INWATS to DID (4011,5015)	31
DID Load Across Wire Centers (5011).....	32
Directed Call Pickup With Barge-In (8033).....	33
Directed Call Pickup Without Barge-In (8032)	34
Distinctive Alert (8031).....	35
Faster Signaling On DID **	36
Flexible ANI Information Digits **	37
Monthly Call Detail Recording (4023).....	38
Multiplexing - T1 Transport - 1.544 Mbps - Line Side (8024).....	39
Multiplexing - T1 Transport - 1.544 Mbps - Trunk Side (5013)	40
Name of Calling Party (formerly 4024) **	41
Priority Installation Service (4013).....	42
Remote Call Forwarding (3004,4019,5014,8025).....	43
Selective Call Acceptance (6003) *	44
Service Code Denial On Line Or Hunt Group (6005).....	45
Single Number Access For Multiple Locations (formerly 4025) **	46
Surrogate Client Number (4002).....	47
Switched 56 Kilobit Service (3019,4021,5036)	48
Third Number Billing Inhibited (4012,7067)	50
Three Way Calling (3020,4020,5019,8028).....	51
Traffic Data Reports (4016,5012,8016)	53
Transmission Improvement for Circuit Switched Services (8012).....	54
Uniform Access Numbers for Business Lines (4010).....	55
3. Appendix 1 - Region Specific Services - Technical Descriptions for Packet Switched Access Arrangements56	
Abbreviated Call - Packet (8036).....	56

Default Window Size - Packet (5022,8007)	57
Flow Control Parameter Negotiation - Packet (8003).....	58
Incoming Calls Barred - Packet (5024,8001)	59
Logical Channels - Packet (8005).....	60
Logical Channel Layout - Packet (8004)	61
Menu Server - Packet (7000).....	62
Multiple Network Addresses/Port - Packet (3001,5027,8006)	63
Outgoing Calls Barred (5028,8002)	64
Permanent Virtual Circuit - Packet (5029,8008).....	65
Reverse Charge Request Option (Packet) (5030,8009)	66
4. Appendix 1 - Region Specific Services - Technical Descriptions for Dedicated Access Arrangements.....	67
Access To Customer Premises Announcement (5035).....	67
Access To Order Entry System (4004).....	68
DS0-B Subrate Multiplexing Service (4015)	69
High Capacity Digital Hand-Off Service (3026).....	70
Inband Signaling (3018).....	71
Line Monitor Service (3027).....	72
Multiplexing - Digital (2000,2001,2002,2018,3005,4007,5034,7034,8013)	73
Route Diversity **	75
User Initiated Diagnostics (4009)	76
5. Appendix 1 - Region Specific Services - Technical Descriptions for Dedicated Network Access Link Serving Arrangements.....	77
Expedited Testing Service *.....	77
Order Entry Service (8011)	79
Initial Address Message (2006)	80
Coordinated Voice and Data Acceptance (2007).....	82
Computer Assisted Dialing Acceptance (2010).....	83
Computer Assisted Call Transfer Acceptance (2009)	84
Call Redirection Acceptance (2008).....	85
Video Dialtone Broadcast Service Channels (3011)	86
Video Dialtone Messaging Port (3013)	87
Video Dialtone Narrowcast Service Channels (3012).....	88

1. Appendix 1 - Region Specific Services - Technical Descriptions for Basic Serving Arrangements

Dedicated Digital (64 Kbps **)

**** NOTE** - this capability was moved to the main section of the ONA Services User Guide for the July 1993 update.

ATM Cell Relay Service (8040)

ATM Cell Relay Service (ATM CRS) is a connection-oriented communications service that uses Asynchronous Transfer Mode (ATM) technology. The service provides customers with high-speed, low-delay information transfer capacity, which supports applications that require near-real-time mixed media (data, video, image, voice) communications among multiple locations. ATM CRS supports transmission speeds of either up to 45 Mbps or up to 155 Mbps.

ATM CRS requires the use of customer terminal equipment that functions as a multiplexer/router/hub or ATM switch. This terminal equipment must be purchased separately from the ATM CRS and must conform to industry standards. The terminal equipment accumulates customer traffic and puts it into a cell relay format suitable for transmission over the ATM CRS Network.

ATM CRS conforms to industry standards and is only provided over fiber optic facilities. Technical Specifications for ATM CRS are delineated in Technical Publication PUB 77378 (U S WEST).

Generic Name of ONA Service	Product Name	
ATM Cell Relay Service	USW - ATM Cell Relay Service	BSA

Frame Relay Service (4027,5037,8039)

This service provides fast packet transmission of customer data to and among Local Area Networks and host computers. Using statistical multiplexing, it allows customers to allocate circuit bandwidth to applications as needed and as available. Variable length frames are relayed from the source to the desired destination by means of virtual connections which are established at the time of subscription via Service Order.

This arrangement requires the use of separately purchased customer provided terminal equipment that functions as a multiplexer/bridge/router. The terminal equipment accumulates customer data and puts it into a frame relay format for transmission over the Frame Relay Network.

Generic Name of ONA Service	Product Name	
Frame Relay Service	BS - Exchange Access Frame Relay Service	BSE
	NX - Frame Relay Service	BSA
	USW - Frame Relay Service	BSA

References:

- TR-TSV-001369 Generic Requirements for Frame Relay PVC Exchange Service, Issue 1, May 1993
- TR-TSV-001370 Generic Requirements for Exchange Access Frame Relay PVC Service, Issue 1, May 1993

MegaBit Service (8041)

MegaBit Service utilizes Digital Subscriber Line (DSL) technology to provide customers with both voice and high-speed data services over metallic local loop facilities. This service allows the Company to accept traffic from the customer and separate the voice from the data, sending each type of traffic to the appropriate, separate network.

MegaBit Service allows the end user to transmit data at peak bandwidths ranging from 256 kbps to 7 Mbps. Multiple end users' data transmissions are aggregated onto a central office hub transmitting at peak bandwidths of 1.544 Mbps, or 3 Mbps up to 45 Mbps (in 3 Mbps increments).

Generic Name of ONA Service	Product Name	
MegaBit Service	USW - MegaCentral	BSA/BSE
	USW - MegaSubscriber	CNS

References: Technical specifications for MegaBit Service are delineated in U S WEST Technical Specification Paper #60000-006 CAP RADSL (Netspeed).

Trunk Side Access Facility (4003)

This capability provides a trunk side connection from a Traffic Operator Position System (TOPS) Tandem switch to an ESP's premises. This connection will be a dedicated one way trunk group from each of the TOPS-Tandem switches serving the end offices the ESP wishes to receive traffic from. This trunk group is designed to deliver the called number (UAN) and calling line ANI from the TOPS Tandem switch to the ESP. Feature Group D-like signaling will be used to communicate with the ESPs CPE.

This capability will only be available in the General Subscribers Services Tariff and only in conjunction with Uniform Access Number.

Generic Name of ONA Service	Product Name	
Trunk Side Access Facility	BS - Trunk Side Access Facility	BSA

References: not available.

Video Dialtone Access Link (3010)

A Video Dialtone Service that provides for the transport of video and other programming signals.

Generic Name of ONA Service	Product Name	
Video Dialtone Access Link	BA - VDT - Access Link	BSA

FEATURE OPERATION:

Video Dialtone Direct Access Link provides a connection from the Programmer-Customer's designated location to a Telephone Company Video Distribution Office and is capable of transporting up to a maximum of ninety-six (96) 6 megabyte/sec MPEG2 [MPEG - Motion Picture Experts Group] digital signals. Video Dialtone Access Links are one-way, from the Programmer-Customer to the Video Dialtone Distribution Office, and require that the Programmer-Customer meet the interface specifications found in Bell Atlantic Technical Publication TR-72550.

TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:

For interface publications, see Bell Atlantic Technical Publications TR-72550 and TR-72211.

Also see BroadBand Technologies Technical Publication TESP-0106. Contact information for BroadBand Technologies, Inc.:

BroadBand Technologies, Inc.
 Suite 150, Triangle Business Center
 4024 Stirup Creek Drive
 Durham, NC 27703
 Post Office Box 13737
 Research Triangle Park, NC 27709-3737
 Telephone: 919 544-0015
 Fax: 919 544-5356

This service is offered where available and facilities permit.

555 Access Service (8038)

This service provides access to ESPs by their clients using a 555-XXXX telephone number. The service enables the ESP to have a uniform, LATA-wide, 10 digit (NPA-555-XXXX) telephone number. The same 555 number could be used in multiple LATAs where service is available.

Generic Name of ONA Service	Product Name	BSE or CNS
555 Access Service	USW - 555 Access Service	BSA

FEATURE OPERATION:

1. When a caller dials the unique 555 telephone number (1-NPA-555-XXXX) within a LATA, the call is routed to the caller's originating end office and then to the associated Traffic Operator Position Switch (TOPS) that serves the end office.
2. At the TOPS tandem the 555 call is translated into a unique 800 NXX-XXXX telephone number which is associated with each 555 telephone number or group of 555 telephone numbers. (The 800 telephone number is obtained by the 555 service subscriber.) [Note: 888 is now equivalent to 800.]
3. After the call is translated into an 800 telephone number, the 800 database is queried to identify the 555 Service subscriber's call routing instructions.
4. The 555 call is then routed in the standard Feature Group D format which includes the calling number, the called number (800 telephone number) and Automated Number Identification (ANI) information digits. ANI information digits are the digits that precede the calling number on the ANI record. ANI information digits inform the 555 Service subscriber of the calling party's class of service for billing, routing and other special handling purposes.

TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:

1. The calling party, the TOPS tandem and the 555 subscriber's routing point must be in the same LATA. The routing point can be either the 555 subscriber's location or to their carrier of choice. In LATAs where more than one TOPS tandem is present, the 555 Service subscriber must subscribe to 555 Service from both TOPS tandems.
2. Calls from outside the LATA will be blocked. Blocking also applies to "0 minus" (e.g., for the hearing impaired, etc.), "0+" calls, and restricted classes of service.
3. This capability is currently available only from suitably equipped DMS-200 Traffic Operator Position Switches.

2. Appendix 1 - Region Specific Services - Technical Descriptions for Circuit Switched Serving Arrangements

AIN Alternate Routing (4028)

This service allows customers to establish predetermined alternate routing plans for incoming voice and data traffic (e.g., MLHG, DID). Incoming calls can be rerouted to multiple (or a different) locations and/or announcements during varied emergency situations.

Generic Name of ONA Service	Product Name	BSE or CNS
AIN Alternate Routing	BS - CrisisLink SM	CNS

FEATURE OPERATION:

At the time this service is established, the customer predefines a set of directory numbers (DNs) to be protected in the event of a crisis. All DNs in the set receive the same default alternate handling when the service is activated. The DN set is loaded through the AIN Service Management System (SMS) into the Switching Control Point (SCP), where it remains dormant until activated via customer request to the Service Center. When a customer calls to activate their service, they may activate their default treatment, or may specify changes at the time of activation.

As an example, the incoming calls to a customer can be rerouted to the predefined DNs as follows:

- A% of calls are redirected to Backup DN 1
- B% of calls are redirected to Backup DN 2
- C% of calls are redirected to Backup DN 3
- D% of calls are redirected to a DN associated with a customized announcement
- E% of calls are completed to the number originally dialed (partial crisis/restore)
- F% of calls are sent to a standard switch based announcement

This service uses two AIN 0.1 triggers: the Public Office Dialing Plan (PODP) trigger and the Termination Attempt Trigger (TAT).. The distinction between the two is as follows:

- A PODP trigger is assigned to DNs which are served by a 5ESS terminating SSP (ASP Release 0.1B or later).
- A TAT is assigned to NDs which are served by a DMS-100 terminating SSP (NA003 or later).

SM CrisisLink is a service mark of BellSouth Corporation.

AIN Single Number Access (4030)

This service allows a data network provider to deliver one-number local call access to their online offerings from anywhere in an RBOC's serving area. All charges for access are billed to the data network provider enabling them to cost-effectively expand service throughout the region, while calling charges are aggregated on a regionwide basis to ensure low per-minute cost.

Generic Name of ONA Service	Product Name	BSE or CNS
AIN Single Number Access *	BS - DataReach SM	BSE

FEATURE OPERATION:

At the time this service is established, a data network provider is assigned a number in a dedicated NXX. This 7-digit number can be reserved for the customer throughout the RBOC serving area. Based on the wire center of the originating party, the call is forwarded to a provider-designated location within the originating LATA. This service uses the Public Office Dialing Plan (PODP) trigger to determine the proper routing for the call.

SM DataReach is a service mark of BellSouth Corporation.

* Service currently only available to existing BellSouth subscribers in Mississippi.

AIN Terminating Data Collection/Customized Routing (4029)

This service provides a customer with pertinent terminating traffic data information as well as the capability for customized routing arrangements.

Generic Name of ONA Service	Product Name	BSE or CNS
AIN Traffic Data/Routing	BS - AdWatch [®]	CNS

FEATURE OPERATION:

The customer's Directory Number (DN) becomes a "virtual" number either by reusing the customer's existing number (if it resides in a 5ESS switch), or by assigning the customer a new number in a 5ESS switch.

The customer's "virtual" number is listed as the customer's number in the Directory. Calls directory to this number can be handled as follows:

Data Collection

- counts of calls made to the virtual number including the calling party number
- call detail based on calls that receive busy or don't answer
- the customer is able to access the service via a VT100 terminal at up to 19.2 kbps, and the customer will be able to view and download call records.

Routing Functionality

- routing by day of week/time of day/% distribution to up to three locations
- routing from the virtual number to a set of locations based on geographic origination of the call

[®] AdWatch is a registered trademark of BellSouth Corporation.

Automatic Disaster Recovery of DID (5010)

This capability enables an ESP with multiple wire centers to provision the same Direct Inward Dialing (DID) numbers to automatically transfer to an alternate wire center in the event of a failure. The DID number will reside at the normal serving wire center. The wire centers must be connected by 1.544 Mbps interoffice facilities.

Generic Name of ONA Service	Product Name	BSE or CNS
Automatic Disaster Recovery of DID	NX - DID/DOD Disaster Recovery Service	BSE

FEATURE OPERATION:

This feature is activated in the event of a failure in the loop between the normal wire center and the customer premises. Incoming calls to lines connected to the normal wire center will be rerouted over the 1.544 Mbps trunks to the alternate wire center for completion. PBX customers obtain DID service from their normal serving wire center and an alternate wire center designated by the telephone company. DID service from the normal wire center and the alternate wire center will share an NXX that will reside at the normal wire center.

TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:

1. This feature is available in the following central office switches:

Switch Type	5ESS	DMS-100
Earliest Generic Release	5E2	BCS27

2. Outgoing calls from the alternate wire center will not be affected.

Automatic Delivery (2019)

When an end user encounters a busy or don't answer condition on outgoing calls, this feature automatically forwards the calling party's call to a predetermined, dialable number served by the same or different central office switch.

Generic Name of ONA Service	Product Name	BSE or CNS
Automatic Delivery	AM - Automatic Delivery	CNS

FEATURE OPERATION:

This feature, where available, will forward calls from POTS and business lines to a dialable number.

TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:

1. This feature is available in the following central office switches:

Switch Type	5ESS	DMS-100
Earliest Generic Release	5E12	NA 006

References: not available

This service, if offered as a BSE, is associated with the Circuit Switched Trunk Type BSA.

Bridging - Line (5001)

This provides the ability to connect an end user's switched exchange service to an ESP (e.g., telephone answering or voice messaging service provider). This capability is the traditional bridged service that provided answering services with a direct connection to the client's line.

Generic Name of ONA Service	Product Name	BSE or CNS
Bridging - Line	NX - Bridging (Secretarial)	BSE

Reference: LSSGR FR-64 (formerly FR-NWT-000064), FSD 20-02-2010, Bridge Services On An IDLC System, Issue 1, September 1989, Module TR-TSY-000672.

This service, if offered as a BSE, is associated with the Circuit Switched Line serving arrangement.

Call Denial On Line Or Hunt Group (6004)

This screening option limits terminating Circuit Switched Line calls to completion within the LATA where the Circuit Switched Line resides. InterLATA and International calls are blocked, as well as calls which may potentially terminate outside the LATA. The Call Denial option allows calls to terminate to any NXX within the LATA served by the Circuit Switched Line that does not have a special charge associated with it. Blocked calls are routed to a reorder tone or recorded announcement.

Call Denial On Line Or Hunt Group is useful to 900 services and the ESP industry for fraud control.

This feature is provided in all electronic end offices and, where available, in electro-mechanical end offices.

Generic Name of ONA Service	Product Name	BSE or CNS
Call Denial On Line Or Hunt Group	PB - Call Denial On Line Or Hunt Group	BSE

Reference GR-334, Switched Access Service: Transmission Parameter Limits and Interface Combinations, Issue 1, June 1994 (replaces TR-NWT-000334, Issue 3).

This service, if offered as a BSE, is associated with the Circuit Switched Line basic serving arrangement.

Call Detail Recording Reports - via NXX Screening (8014)

This service provides for call detail information to be recorded and made periodically available to ESPs via paper or magnetic tape format. The ESP is assigned a unique NXX code which alerts the originating central office to record call detail. Call detail includes: billing name, address and phone number; calling and called number; message date; and connect and disconnect time. Call detail is provided only for intraLATA calls. The ESP does not have to obtain access via Feature Groups A or D in order to obtain this service.

Generic Name of ONA Service	Product Name	BSE or CNS
Call Detail Recording Reports - via NXX Screening	USW - Network Access Service	BSE

Reference LSSGR FR-64 (formerly FR-NWT-000064), FSD 02-02-1200, LSSGR: Traffic Data Provision Features, Issue 1, October 1990, TR-NWT-000621.

This service, if offered as a BSE, is associated with the Circuit Switched Line basic serving arrangement.

Call Forwarding Originating (2003)

Call Forwarding Originating is an optional basic service which is provisioned as an originating subscriber feature. It is responsible for detecting a busy or no-answer condition, and when detected, can invoke an announcement which offers the caller an option to leave a message. Call Forwarding Originating provides a trigger initiative to query the AIN Service Control Point (SCP) for routing information to direct the caller to their messaging provider of choice.

Generic Name of ONA Service	Product Name	BSE or CNS
Call Forwarding Options	AM - Special Delivery Service	CNS

FEATURE OPERATION:

Since the end office portion of the feature can only route to one telephone number, AIN functionality is combined with this feature to provide the capability to route to multiple providers. The AIN SCP stores a table that maps the originating telephone number to a chosen messaging provider. When the SCP is queried, the appropriate provider's telephone number is returned to the end office for final routing. The SS7 links will transport call set-up information (ISUP) between each end office, as well as provide connectivity to and from the SCP for call monitoring and routing information. The STP switches are responsible for routing SS7 messages to the appropriate AIN node (i.e., SCP, end office, tandem, etc.). This feature is modified on a line basis by a service order.

TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:

1. This feature is available in the following central office switches:

Switch Type	DMS-100
Earliest Generic Release	NA-004

References: Not available.

Call Forwarding To Multiple Locations (6002)

This capability allows a subscriber/user to selectively redirect calls arriving at his/her station set to two (and sometimes more than two) different answering points including multiple messaging services based on specific call situations.

Generic Name of ONA Service	Product Name	BSE or CNS
Call Forwarding To Multiple Locations	PB - Dual Telephone Coverage	CNS

References: Not available.

This service, if offered as a BSE, is associated with the Circuit Switched Line type basic serving arrangement.

CFDA To DID Intraswitch (8022)

Call Forwarding Don't Answer to DID Intraswitch allows calls to be forwarded to a DID number served from the same central office as the forwarded call when the called number fails to answer. This service is associated with DID service in 1A ESS central office switches and allows the DID trunk to receive calls forwarded on a Don't Answer basis from lines equipped with Call Forwarding Don't Answer. The called number and the forwarded-to number must be in the same central office switch.

Generic Name of ONA Service	Product Name	BSE or CNS
CFDA To DID Intraswitch	BS - CFDA	CNS *
	USW - Expanded Answer	CNS

References: not available.

* This capability is inherent in certain 1A ESS central office switches.

Call Transfer On DID (3002,4026,8034)

This capability allows an ESP with Direct Inward Dial (DID) trunks to add another party to an established incoming call, to perform a three way conference. After establishing the conference, the ESP may drop from the connection without disconnecting the remaining two parties. This action allows the ESP to transfer specific calls and free the ESP's line to receive another call.

Generic Name of ONA Service	Product Name	BSE or CNS
Call Transfer On DID	BA - 2-Way DID & Call Transfer	BSE
	BS - User Transfer On DID	BSE
	USW - DID 2-Way Call Transfer	BSE

1. This feature is available in the following central office switches:

Switch Type	1A ESS	5ESS
Earliest Generic Release	1AE8A	5E2

2. The DID trunk must be 2-way with E&M signaling.
3. In the 5ESS central office switches, the DID trunk must have DTMF capabilities.

This service, if offered as a BSE, is associated with the Circuit Switched Trunk basic serving arrangement.

Call Waiting (2005,3017,4018,5005)

The Call Waiting (CW) feature informs a busy station user, by a burst of tone, that another call is waiting. The busy station user may hang up and answer the second call or can place the original call on hold and answer the second call.

Generic Name of ONA Service	Product Name	BSE or CNS
Call Waiting	AM - Call Waiting	CNS
	BA - Call Waiting	CNS
	BS - Call Waiting	CNS
	NX - Call Waiting	CNS
	PB - Call Waiting	CNS
	USW - Call Waiting	CNS

FEATURE OPERATION:

An incoming call to a busy line with CW receives audible ringing. The line with Call Waiting receives a CW tone that is repeated once about 10 seconds after the initial burst of tone.

The line with CW may respond to the CW tone in one of three ways. The called party may disconnect from the existing call. The telephone will then be rung and, if answered, the called party will be connected to the waiting call. The second alternative allows the line with Call Waiting to flash the switch-hook (.75 to 1.5 seconds) and, thereby, place the original call on hold and connect to the incoming call. The party with CW may alternate between calls by flashing the switch-hook. The third alternative is not to respond to the CW tone.

TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:

1. This feature is available in the following central office switches:

Switch Type	1A ESS	5ESS	DMS-100
Earliest Generic Release	1AE8	5E2	BCS17

2. If a line has Call Forwarding Busy Line (CFBL) and CW, the CW service normally takes precedence.
3. Given that a line has both CFBL and CW and is in the talk state, the first call attempting to terminate is treated as a CW call. Subsequent termination attempts are call forwarded.
4. On a line with both a make-busy key and CW, make-busy key takes precedence when the key is activated.

5. References:

- LSSGR FR-64 (formerly FR-NWT-000064), FSD 01-02-1201 Call Waiting, Issue 1, October 1989, Revision 1, June 1991, TR-TSY-000571.
- Business Group Call Waiting FSD 01-02-1205, Issue 1, October 1989, TR-TSY-000573.
- TR-TSY-000219 CLASSSM Feature: Distinctive Ringing/Call Waiting, LSSGR FSD 01-01-1110, Issue 2, November 1988, Revision 1, May 1992.

This service, if offered as a BSE, is associated with the Circuit Switched Line basic serving arrangement.

SM CLASS is a service mark of Bellcore (Bell Communications Research, Inc.)

Call Waiting With Forwarding Options (6001)

This service has been merged with Generic Service #1093 (Call Forwarding Don't Answer After Call Waiting).
This change was made for the January 1996 update of the ONA Services User Guide.

Called/Calling Number Information - ANI (4005)

Automatic Number Identification (ANI) provides the delivery of the calling party station billing number and called number to a customer during call establishment.

A one-way dedicated trunk group is provided between the end offices and the Traffic Operator Position System (TOPS) Tandem switch. These trunks provide the called number and ANI information to the TOPS Tandem switch. The TOPS Tandem switch provides the software and hardware capability used to support the ANI service. A dedicated customer trunk group from the TOPS Tandem switch to the customer's location provides the connection for ANI and called number delivery to the customer.

Uniform Access Number (UAN) service is required to support ANI service.

Generic Name of ONA Service	Product Name	BSE or CNS
Called/Calling Number Information - ANI	BS - Automatic Number Identification	BSE

References: not available.

This service, if offered as a BSE, is associated with the Circuit Switched Trunk basic serving arrangement.

Coin Phone With Post Dialing Tone Capability **

**** NOTE - this capability was moved to the main section of the ONA Services User Guide for the July 1993 update.**

Custom Service Areas (4006)

Custom Service Area (CSA) service provides the customer with the capability of defining a specific geographical area from which to receive his client's traffic. CSA is implemented as a blocking function on a per end office basis.

Uniform Access Number is also required for this service.

The CSA feature is provided through translation capabilities associated with a Traffic Operator Position System (TOPS) Tandem switch. Each end office in a LATA is connected to a TOPS Tandem switch through a dedicated one way trunk group.

Generic Name of ONA Service	Product Name	BSE or CNS
Custom Service Areas	BS - Custom Service Areas	BSE

References: not available.

This service, if offered as a BSE, is associated with the Circuit Switched Line or Circuit Switched Trunk basic serving arrangements.

Customer Changeable Number of Rings (2004)**

**** NOTE - this capability was moved to the main section of the ONA Services User Guide for the July 1996 update.**

Cut Off On Disconnect **

**** NOTE - this capability was moved to the main section of the ONA Services User Guide for the July 1993 update.**

Dial Call Waiting (8030)

Dial Call Waiting, when used in conjunction with the Distinctive Alert feature, will allow a subscriber (for example, an Enhanced Service Provider) to invoke a distinctive ring or call waiting tone on another line. The feature is initiated by dialing an access code in the form of *XX and the telephone number of the line to be called. For this feature to work, the called line must be equipped with the Distinctive Alert feature. If the line is idle, a distinctive ring will be applied. If the line is busy, the called party will receive a call waiting tone.

Both the line equipped with Dial Call Waiting and the line equipped with Distinctive Alert must be in the same central office switch. Other technical considerations also apply.

Generic Name of ONA Service	Product Name	BSE or CNS
Dial Call Waiting	USW - Dial Call Waiting	BSE

This feature is available in the following central office switches:

Switch Type	5ESS
Earliest Generic Release	5E2

This service, if offered as a BSE, is associated with the Circuit Switched Line basic serving arrangement.

Dialed Number Identification via INWATS to DID (4011,5015)

Dialed Number Identification Service on 800 Service (also known as INWATS Directed to DID trunks), is a service for use in conjunction with an ESP's voice grade trunk (DID) circuit switched basic serving arrangement. Incoming 800 Service calls are terminated over DID trunks, thereby indicating the 800 number that was dialed by the calling party. The ESP knows the station number associated with each 800 number so when it receives the station number over the DID trunk it can identify the 800 number called. [Note: 888 is now equivalent to 800.]

Generic Name of ONA Service	Product Name	BSE or CNS
Dialed Number Identification Via INWATS to DID *	BS - 800 Service to DID Service NX - DNIS On 800	BSE or CNS BSE

References: not available

This service, if offered as a BSE, is associated with the Circuit Switched Trunk serving arrangement.

*

U S WEST withdrew their offering for this service in the 5/19/89 ONA Plan Amendments.

DID Load Across Wire Centers (5011)

This capability enables an ESP with multiple wire centers to provision the same Direct Inward Dialing (DID) numbers at duplicate wire centers. The DID number will reside at the normal serving wire center. The wire centers must be connected by 1.544 Mbps interoffice facilities.

Generic Name of ONA Service	Product Name	BSE or CNS
DID Load Across Wire Centers	NX - DID/DOD Disaster Recovery Service	BSE

FEATURE OPERATION:

This feature is activated in the event of a failure in the loop between the normal wire center and the customer premises. Incoming calls to lines connected to the normal wire center will be rerouted over the 1.544 Mbps interoffice trunks to the alternate wire center for completion. PBX customers obtain DID service from their normal serving wire center and an alternate wire center designated by the telephone company. DID service from the normal wire center and the alternate wire center will share an NXX that will reside at the normal wire center.

TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:

1. This feature is available in the following central office switches:

Switch Type	5ESS	DMS-100
Earliest Generic Release	5E2	BCS27

2. Outgoing calls from the alternate wire center will not be affected. Lines connected to the normal wire center will be out of service.

Directed Call Pickup With Barge-In (8033)

Directed Call Pickup With Barge-In allows a subscriber to pick up a call which has been answered or is ringing on another line. This feature is initiated by dialing an access code in the form of *XX and the telephone number of the line to be picked up. If the line to be picked up is in the ringing state, a connection is established between the line originating Directed Call Pickup With Barge-In and the line that originated the incoming call. If the line to be picked up has answered the incoming call, a three way connection is established between the line initiating the pickup, the originating line and the called line.

Both the line originating the pick up and the line to be picked up must be equipped with the service and must be in the same central office switch. Other technical considerations also apply.

Generic Name of ONA Service	Product Name	BSE or CNS
Directed Call Pickup With Barge-In	USW - Directed Call Pickup With Barge-In	BSE

This feature is available in the following central office switches:

Switch Type	5ESS
Earliest Generic Release	5E2

Reference:

- TR-TSY-00590 Call Pickup Features, FSD 01-02-2800, Issue 1, July 1989

This service, if offered as a BSE, is associated with the Circuit Switched Line basic serving arrangement.

Directed Call Pickup Without Barge-In (8032)

Directed Call Pickup Without Barge-In allows a subscriber to pick up a call which is ringing on another line. This feature is initiated by dialing an access code in the form of *XX and the telephone number of the line to be picked up. If the line to be picked up is in the ringing state, a connection is established between the line originating Directed Call Pickup Without Barge-In and the line that originated the incoming call. If the line to be picked up has answered the incoming call, busy tone is returned to the line that originated the Directed Call Pickup Without Barge-In feature.

Both the line originating the pick up and the line to be picked up must be equipped with the service and must be in the same central office switch. Other technical considerations also apply.

Generic Name of ONA Service	Product Name	BSE or CNS
Directed Call Pickup Without Barge-In	USW - Directed Call Pickup Without Barge-In	BSE

This feature is available in the following central office switches:

Switch Type	5ESS
Earliest Generic Release	5E2

Reference:

- TR-TSY-00590 Call Pickup Features, FSD 01-02-2800, Issue 1, July 1989

This service, if offered as a BSE, is associated with the Circuit Switched Line basic serving arrangement.

Distinctive Alert (8031)

Distinctive Alert, when used in conjunction with the Dial Call Waiting feature, will allow a subscriber (for example, an Enhanced Service Provider's client) to be notified of certain incoming calls. When called from a line equipped with the Dial Call Waiting feature, a distinctive ring will be provided if the line is idle and a call waiting tone will be heard if the line is busy.

Both the line equipped with Distinctive Alert and the line equipped with Dial Call Waiting must be in the same central office switch. Other technical considerations also apply.

Generic Name of ONA Service	Product Name	BSE or CNS
Distinctive Alert	USW - Distinctive Alert	BSE

This feature is available in the following central office switches:

Switch Type	5ESS
Earliest Generic Release	5E2

This service, if offered as a BSE, is associated with the Circuit Switched Line basic serving arrangement.

Faster Signaling On DID **

**** NOTE - this capability was moved to the main section of the ONA Services User Guide for the July 1993 update.**

Flexible ANI Information Digits **

**** NOTE - this capability was moved to the main section of the ONA Services User Guide for the July 1993 update.**

Monthly Call Detail Recording (4023)

This capability is an arrangement to provide a customer with a monthly record of terminating calls to a specific customer number. The customer is provided with call detail information such as: calling telephone number, the customer specified number, date, time of day and call duration.

Generic Name of ONA Service	Product Name	BSE or CNS
Monthly Call Detail Recording	BS - Call Detail Information	BSE

FEATURE OPERATION:

The customer subscribes to a service utilizing a unique NXX code. The unique NXX code is used to route calls for that NXX to the TOPS switch for recording. The billing process separates the recorded messages by line number and prepares a magnetic tape for each customer requesting a detailed record of the calls to his number.

TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:

1. Call detail includes the customer's number, the originating number, date, time of day and call duration.
2. Data is provided on magnetic tape. The tape density and number of tracks will be that used by the program and data processing system in use by the LEC's accounting center furnishing the tape.
3. A magnetic tape will be provided by the LEC on each occasion that the call information is furnished to the customer. The tape becomes the property of the customer and may not be returned to the LEC for reuse.
4. References:
 - None

Multiplexing - T1 Transport - 1.544 Mbps - Line Side (8024)

This provides the ESP with a digital 1.544 Mbps facility at their premises that is then available to provide for 24 Line Circuit Switched Basic Serving Arrangements. The interface is capable of transmitting electrical signals at a nominal 1.544 Mbps rate, with the capability to channelize 24 voice frequency transmission paths. When utilizing analog terminations, either in analog or digital switching systems, the BOC will provide multiplex and/or channel bank equipment to derive 24 transmission paths of a frequency bandwidth of approximately 300 to 3000 Hz. When utilizing digital terminations, either in analog or digital switching systems, the BOC will provide a DS1 signal in D3/D4 format. All service will be provided with individual transmission path bit stream supervisory signaling.

All circuit switched BSAs on the individual DS1 facilities must be uniform in that they must all terminate in the same suitably equipped circuit switch. The individual 24 circuit switched BSAs must all be of the same equipment type, i.e., lines and trunks cannot be mixed.

This service will be provided on an individual case basis.

Generic Name of ONA Service	Product Name	BSE or CNS
Multiplexing - T1 Transport - 1.544 Mbps - Line Side	USW - Interface Group 6	BSE

Reference: LSSGR FR-64 (formerly FR-NWT-000064), LSSGR: Common Section 10, System Interfaces, Issue 2, July 1987, Revision 1 - October 1995, Revision 2 - August 1996, Module TR-TSY-000510.

This service, if offered as a BSE, is associated with the Circuit Switched Line serving arrangement.

Multiplexing - T1 Transport - 1.544 Mbps - Trunk Side (5013)

This provides the ESP with a digital 1.544 Mbps facility at their premises that is then available to provide up to 24 Circuit Switched Trunk Basic Serving Arrangements. When utilizing analog network terminations, the telephone company will provide multiplex and/or channel bank equipment to multiplex 24 transmission paths of a frequency bandwidth of approximately 300 to 3000 Hz into a DS1 signal. When utilizing digital network terminations, the telephone company will provide a DS1 signal.

Generic Name of ONA Service	Product Name	BSE or CNS
Multiplexing- T1 Transport - 1.544 Mbps - Trunk Side	NX- Circuit Switched Trunk With T1 Transport	BSE or CNS

Reference: LSSGR FR-64 (formerly FR-NWT-000064), LSSGR: Common Section 10, System Interfaces, Issue 2, July 1987, Revision 1 - October 1995, Revision 2 - August 1996, Module TR-TSY-000510.

This service, if offered as a BSE, is associated with the Circuit Switched Trunk serving arrangement.

Name of Calling Party (formerly 4024) **

**** NOTE - this capability was moved to the main section of the ONA Services User Guide for the July 1995 update.**

Priority Installation Service (4013)

This service provides the ESP, on an optional basis, priority installation.

Generic Name of ONA Service	Product Name	BSE or CNS
Priority Installation Service	BS - Expedited Order	BSE or CNS

FEATURE OPERATION:

An ESP may request that the installation service order be expedited. The ESP will incur the Expedited Order Charge to obtain the expedited service date.

References: not applicable.

Remote Call Forwarding (3004,4019,5014,8025)

Remote Call Forwarding (RCF) is a service that utilizes a Directory Number (DN) to automatically forward all incoming calls to another DN. The forwarded to number can be in the same central office switch or in another central office switch.

The remote call forwarding directory number is not directly associated with an access connection arrangement, but rather is a software translation programmed within the central office switch. All calls dialed to that directory number will forward to another number automatically. The subscriber to this capability does not have a station set for termination of calls made to their remote call forwarding number.

Generic Name of ONA Service	Product Name	BSE or CNS
Remote Call Forwarding	BA - Remote Call Forwarding	CNS
	BS - Remote Call Forwarding	CNS
	NX - Remote Call Forwarding	CNS
	USW - Market Expansion Line	BSE

Reference: LSSGR FR-64 (formerly FR-NWT-000064), FSD 01-02-1402, Remote Call Forwarding, TR-TSY-000581, Issue 1, October 1989.

This service, if offered as a BSE, is associated with the Circuit Switched Line serving arrangement.

Selective Call Acceptance (6003) *

*** This service was removed by Pacific Bell. It was identified by Pacific Bell & Nevada Bell Third Further Amendment to Plan to Provide ONA, April 15, 1991, and in the Alternative Petition for Waiver, Transmittal 1553, page 16, as a service that is still under development.**

Service Code Denial On Line Or Hunt Group (6005)

This screening option disallows completion of terminating calls to local directory assistance (411, 555-1212), to service codes 611 and 911, and to local operator assistance (0-, 00-). Blocked calls are routed to a reorder tone or a recorded announcement.

Service Code Denial On Line Or Hunt Group is useful to 900 services and the ESP industry for fraud control.

This feature is provided in all electronic end offices and, where available, in electro-mechanical end offices.

Generic Name of ONA Service	Product Name	BSE or CNS
Service Code Denial On Line Or Hunt Group	PB - Service Code Denial On Line Or Hunt Group	BSE

Reference: GR-334, Switched Access Service: Transmission Parameter Limits and Interface Combinations, Issue 1, June 1994 (replaces TR-NWT-000334, Issue 3).

This service, if offered as a BSE, is associated with the Circuit Switched Line serving arrangement.

Single Number Access For Multiple Locations (formerly 4025) **

**** NOTE - this capability was moved to the main section of the ONA Services User Guide for the July 1995 update.**

Surrogate Client Number (4002)

This capability provides a method for customers of an ESP to have a "presence" in the ESP's serving office as a "virtual telephone number." This capability will allow an ESP to identify the "calling number" of customers served by central offices where demand is insufficient to justify a Foreign Central Office (FCO) arrangement for calling number identification services such as SMDI that are currently limited by technology to intraoffice applications only.

This capability is presently only feasible from 1A ESS switches. This capability cannot be used with Call Forwarding Don't Answer to a DID number. This capability is limited to intraoffice operation.

Generic Name of ONA Service	Product Name	BSE or CNS
Surrogate Client Number	BS - Surrogate Client Number	BSE

Reference: LSSGR FR-64 (formerly FR-NWT-000064), FSD 01-02-1402, Remote Call Forwarding, TR-TSY-000581, Issue 1, October 1989.

This service, if offered as a BSE, is associated with the Circuit Switched Line serving arrangement.

Switched 56 Kilobit Service (3019,4021,5036)

Switched 56 Kilobit Service enables subscribers to transmit and receive data at the rate of 56 kilobits per second. Customers requiring InterLATA/Interstate transport can subscribe to an Interexchange Carrier that has Switched 56 Kilobit Service connectivity. The telephone company may offer Switched 56 Kilobit Access Service using Feature Group D protocol arrangements.

Generic Name of ONA Service	Product Name	BSE or CNS
Switched 56 Kilobit Service	BA - Switched 56 Kilobit Service	BSA
	BS - AccuPulse®	BSA
	NX - Switchway	BSA

FEATURE OPERATION:

Customers establish calls by dialing 7 or 10 digits as they would for a POTS call. Calls can only terminate to another Switched 56 line and cannot be used for normal voice communications.

TECHNOLOGICAL AND FEATURE INTERACTION CONSIDERATIONS:

1. This feature is available in the following central office switches:

Switch Type	1A ESS	5ESS
Earliest Generic Release	1AE8	5E6

2. This service is offered from specially equipped 1A ESS and 5ESS switches using facilities that are designed to accommodate 56 kilobits per second, full duplex, synchronous transmission. Remote access arrangements are available for customer locations not within the local wire center area of the specially equipped switches.
3. Subscriber loops from the local central office to customers' premises must be 4-wire, non-loaded facilities that can be designed to meet the specifications of Digital Data Service.
4. Interoffice facilities are specially equipped and are dedicated to the transport of Switched 56 Kilobit Service traffic. Access facilities are also specially equipped and dedicated to Switched 56 Kilobit Service.
5. Customers' CPE must be Accunet Compatible.

® AccuPulse is a registered service mark of BellSouth Corporation.

6. References:

- **GR-334 Switched Access Service: Transmission Parameter Limits and Interface Combinations, Issue 1, June 1994 (replaces TR-NWT-000334, Issue 3).**
- **Digital Data System Channel Interface Specification, September 1983 (MDP-326-726).**

This service is associated with the Circuit Switched Trunk basic serving arrangement.

Third Number Billing Inhibited (4012,7067)

This capability provides Enhanced Services Providers (ESPs) with the ability to prevent third number calls from being billed to their switched access billing accounts, (e.g., DID numbers). This capability is provided by the operating procedures of a BOC providing operator services capabilities.

When a call is made to a BOC operator services system, and the caller requests the charges be billed to a third number, the operator makes a call to the third number for verification that the charges will be accepted. If no answer is received when the third number is called for verification of billing acceptance, the bill to third request is rejected.

In some areas, when a call is made to a BOC operator services system, and the caller requests the charges be billed to a third number, the operator queries the Line Information Database (LIDB) to determine the billed party's preference concerning bill to third number requests. If the information in the LIDB indicates to always reject bill to third party attempts, then the bill to third request is rejected.

Generic Name of ONA Service	Product Name	BSE or CNS
Third Number Billing Inhibited	BS - Billed Number Screening *	BSE or CNS
	SWB - Billed Number Screening	CNS

Reference: FR-271 (replaces FR-NWT-000271) OSSGR Operator Service Systems Generic Requirements. See FSD 85-01-0300 for information about Third Number Billing, see GR-1177-CORE OSSGR: Special Billing Features (FSD 85 Series), Issue 1, June 1997.

* This capability is available throughout the BellSouth region upon customer request.